

Message Text

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INFO AMEMBASSY VIENNA
AMEMBASSY BONN
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IAEA
DEPARTMENT PASS DOE FOR GIAMBUSSO, SCHWENNESEN,
HULETT, BODDE

E. O. 11652: GDS
TAGS: OCON, INFCE
SUBJECT: INFCE JOINT MEETING OF WORKING GROUP ONE,
SUB-GROUP A, AND WORKING GROUP TWO, SUB-GROUP A,
LONDON, JULY 10-11, 1978

THE SUB-GROUP MEETING BEGAN ON JULY 10. DR. HERMAN
WAGNER OF WEST GERMANY CHAIRED THE MEETING ABOVE IN THE
ABSENCE OF THE FRENCH CO-CHAIRMAN, JEAN COATES. AS AN-
TICIPATED THE AGENDA FOR THE MEETING WAS OUTLINED TO
COVER FOUR TOPICS:

1. NUCLEAR CAPACITY FORECASTS TO THE YEAR
2000 INCLUDING THE COMPILATION OF THE
INFCE SUBMISSIONS, AND CRITICAL REVIEW
OF THE AGGREGATE TOTALS FOR APPROPRIATE
ADJUSTMENT;

2. COMPILATION AND EVALUATION OF REACTOR AND
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FUEL CYCLE CHARACTERISTICS FOR PREPARATION
OF PRELIMINARY ENRICHMENT AND URANIUM RE-
QUIREMENTS THROUGH 2000;

3. DISCUSSION OF WEC INPUTS, OUTPUTS, AND
GENERAL STRATEGIES TO DEVELOP THE LONG
TERM (POST-2000) ENERGY AND NUCLEAR

FORECASTS (WEC - WORLD ENERGY CONFERENCE);

4. PREPARATION OF A TIME SCHEDULE FOR FUTURE
SUB-GROUP BUSINESS.

DISCUSSION ON THE INFCE SUBMISSIONS TO 2000 BEGAN WITH A REVIEW OF THE NEA DRAFT COMPILATION. CHAIRMAN PROPOSED THAT INFCE PRE-2000 NUCLEAR FORECASTS BE OBTAINED BY SIMPLE SUMMING OF INDIVIDUAL COUNTRY INFCE FORECASTS AND OLDER ESTIMATES FOR COUNTRIES NOT RESPONDING. U.S. NOTED THAT SUB-GROUP WAS CHARGED WITH RESPONSIBILITY OF APPLYING JUDGMENT TO AGGREGATE TOTALS. U.S. TABLED PAPER PROPOSING REDUCED TOTALS BY ABOUT 20 PERCENT IN 1990, NOTING GENERIC REASONING INCLUDING LOWER ECONOMIC AND ENERGY GROWTH, NUCLEAR DELAYS DUE TO ENVIRONMENTAL AND PUBLIC CONCERNS, AND CITING PRELIMINARY WORK OF IEA SECRETARIAT, TO BE DISCUSSED IN PARIS, TO SUPPORT ITS VIEW. NO DELEGATION SUPPORTED U.S. POSITION TO REDUCE TOTALS. AUSTRALIAN DELEGATE SPOKE OF HIS ANALYSES WHICH LISTED "MOST" PROBABLE PROJECTIONS SLIGHTLY ABOVE THE LOW OF SUMMED INFCE TOTALS AND HIGH AND LOW RANGES IN THE INFCE SUMMATION AND U.S. PROPOSED RANGES RESPECTIVELY. FRENCH SUBMITTED PAPER PROVIDING ESTIMATES GENERALLY NEAR INFCE HIGH BAND. THERE WAS PROLONGED DEBATE. ULTIMATELY (SECOND DAY) THE CHAIRMAN PROPOSED, AND IT WAS AGREED, THAT INPUT

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DATA FROM INDIVIDUAL COUNTRIES WOULD BE SUMMED, IDENTIFIED AS BEING DERIVED WITHOUT JUDGMENT HAVING BEEN APPLIED TO AGGREGATED TOTALS, BUT - FOR IEA COUNTRY TOTALS - MADE SUBJECT TO CONCLUSION OF THE CURRENT IEA REVIEW PROCESS. IT WAS FURTHER AGREED THAT THE IEA ESTIMATE OF "ATTAINABLE" AGGREGATE NUCLEAR POWER LEVELS FOR IEA COUNTRIES WOULD CONSTITUTE THE "HIGH" BAND AND THAT THE QUANTITY REMAINING AFTER DELETION OF THE IEA ESTIMATE OF QUANTITIES "AT RISK" WOULD REPRESENT THE LOW BAND FOR IEA COUNTRY TOTALS FOR INFCE PURPOSES. MR. WAGNER NOW FEELS PERSONALLY THAT IT MIGHT BE BEST TO TAKE THE SUMMATION OF ALL COUNTRIES' SUBMISSIONS FOR THE INFCE "HIGH", AND THE IEA CONSENSUS OF THE TOTAL "ATTAINABLE" LESS THE "AT RISK" AMOUNTS FOR THOSE COUNTRIES AS THEY COME OUT OF THE IEA REVIEW PROCESS FOR THE LOW. IF PRELIMINARY IEA REVIEW HOLDS, U.S. SHOULD LARGELY ACHIEVE OBJECTIVES. IEA SECRETARIAT DELEGATE, IN PRIVATE CONVERSATIONS INDICATED NO OBJECTIONS TO PROPOSED PROCEDURE. THE PROCESS CONTEMPLATES THAT THE AGGREGATED TOTALS OF NON-IEA COUNTRIES WILL NOT CHANGE FROM THE SIMPLE SUMMING OF OFFICIAL

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OR NEA RED BOOK FORECASTS UNLESS ANY SUCH COUNTRIES
VOLUNTARILY SUBMIT REVISED FORECAST DATA BY ABOUT MID-
SEPTEMBER. ALL PARTICIPANTS WERE INVITED TO SUBMIT
COMMENTS ON AGGREGATED TOTALS TO DATE. FINAL TOTALS
ARE TO BE PRESENTED AND AGREED AT THE OCTOBER 1A/2A
MEETING.

THE CHAIRMAN PROPOSED BREAKING DOWN THE FORECASTS
(DISAGGREGATING) INTO A NUMBER OF REGIONS, PARTICULARLY
DESIRING TO ISOLATE NORTH AMERICA FROM THE REST OF
THE WORLD. U.S. PROPOSED A BREAKDOWN ONLY INTO FREE
WORLD AND COMMUNIST WORLD. ULTIMATELY IT WAS AGREED
THAT FOR THE PRE-2000 PERIOD, FORECASTS WOULD BE
DIVIDED INTO OECD COUNTRIES, NON-OECD COUNTRIES AND
COMMUNIST WORLD COUNTRIES.

CHAIRMAN SOUGHT TO FINALIZE REACTOR FUEL CYCLE
CHARACTERISTICS FOR USE IN PRELIMINARY COMPUTATIONS.
PRIOR TO RECEIPT OF AUTHORITY FOR FORMAL TRANSMITTAL
OF PROPOSED U.S. REVISION TO TABLE 10, U.S. DELEGATE
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PROVIDED U.S. FIGURES INFORMALLY WITH THE CAVEAT THAT THEY WERE STILL PRELIMINARY. (REVISED TABLE 10 TRANSMITTED TO BENNETT, IAEA, AFTER CONCLUSION OF MEETING).

DURING DISCUSSION OF PROPOSED POST-2000 FORECASTING METHODOLOGY U.S. TOOK POSITION THAT WEC MODEL COULD NOT BE ACCEPTED AS PROPOSED BY UK WITHOUT MORE COMPLETE KNOWLEDGE OF METHODOLOGY AND INPUT PARAMETERS. AFTER EXTENSIVE DISCUSSION IT WAS AGREED THAT SMALL U.S.-UK TEAM WOULD VISIT WEC AUTHOR AT CAMBRIDGE, JULY 11. AS RESULT OF MEETING MANY QUESTIONS CLARIFIED AND GENERAL WEC APPROACH APPEARS TO BE ACCEPTABLE BUT U.S. BELIEVES PROPOSED HIGHEST NUCLEAR GROWTH CASE TO BE UNREALISTIC. WEDNESDAY MEETING FURTHER ELABORATED BELOW.

WAGNER PROPOSED THAT PRELIMINARY ALTERNATIVE SCENARIOS BE CONSIDERED FOR POST-2000 PERIOD (ARGUING THAT TCC HAS ASSIGNED SUB-GROUP 1A/2A THIS TASK), AND IDENTIFIED FIVE PROPOSED FRG SCENARIOS BASED UPON DIFFERENT REACTOR-FUEL CYCLE SYSTEMS FOR DIFFERENT COUNTRIES. U.S. TABLED FOUR SCENARIOS DEVELOPED EARLIER FOR POSSIBLE CONTINGENCY USE WITH ASSISTANCE OF U.S. SUPPORT TO WG4, 5 AND 8, BASED UPON IDENTIFICATION OF MAXIMUM AND MINIMUM RESOURCE REQUIREMENTS ON A WORLD WIDE BASIS. DELEGATES ARE TO STUDY PROPOSED SCENARIOS AND BE PREPARED TO SELECT SEVERAL AT OCTOBER MEETING.

CHAIRMAN REQUESTED THAT "ADVISORY" GROUPS OF EXPERTS BE ESTABLISHED TO ASSIST IAEA IN FORMULATING INPUT PARAMETERS TO COMPUTATIONAL PROGRAM, SUGGEST-
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ING FRG, UK, FRANCE AND U.S.. CONSIDERABLE INFORMAL BACKGROUND DATA WAS PROVIDED TO BENNETT, IAEA, IN THIS REGARD.

POSSIBILITY HELD OPEN FOR ADDITIONAL SUB-GROUP MEETING IN SEPTEMBER IF CONTROVERSY NOT LARGELY RESOLVED DURING SUMMER. HOWEVER NEXT FORMALLY SCHEDULED MEETING ON FOR OCTOBER 16.

SESSION WEDNESDAY, JULY 12

THE CO-CHAIRMAN CONVENED A MEETING ON WEDNESDAY,

JULY 12 AT THE UKAEA OFFICES TO RECEIVE AND DISCUSS
A REPORT FROM THE BRITISH AND AMERICAN DELEGATES
WHO HAD TRAVELLED TO THE CAVENDISH LABORATORY IN
CAMBRIDGE ON TUESDAY TO TALK TO DR. EDEN, THE
ORGANIZER OF THE WORLD ENERGY CONFERENCE (WEC)
ON LONG-TERM ENERGY FORECASTING. THIS WAS A CON-
TINUATION OF THE SUB-GROUPS' AGENDA ITEM CONCERNING
LONG-TERM NUCLEAR FORECASTING METHODOLOGY. ATTENDING
THE JUNE 12 MEETING WERE DELEGATIONS FROM THE UK, WEST
GERMANY, FRANCE, JAPAN AND INDIA; MR. WAGNER WAS IN
THE CHAIR.

THE MAJOR FINDINGS OF THE PREVIOUS DAY WERE AS
FOLLOWS:

1. THE WEC RELIED HEAVILY ON AN OIL DEMAND
ASSESSMENT FOR WORLD TRANSPORTATION BASED
ON A UK MODEL PROGRAMMED WITH WORLD DATA. THIS
MODEL WAS IN TURN USED TO STRUCTURE AN INTER-
FUEL SUBSTITUTION MODELLING SCHEME FOR THE

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- DOMESTIC AND INDUSTRIAL SECTORS;
2. ELECTRICITY WAS THE PREFERRED ENERGY
SOURCE WITH HYDRO AND NUCLEAR POWER THE
PREFERRED INPUT FUELS;
 3. NO SUPPLY CONSTRAINT WAS CONSIDERED

FOR URANIUM OR NUCLEAR POWER AS THERE WAS
FOR OTHER FUELS;

4. TWO SCENARIOS, H5 AND L4 ARE (SEE
ABOVE) FIRST REVEALED TO THE SUB-GROUP
AT ITS JULY 10 SESSION, CONSIDERED BY
DR. EDEN AS THE MOST REASONABLE, WHILE ALL
REMAINING WEC SCENARIOS WERE USED TO CALI-
BRATE THE MODELS;

5. THE HIGH GROWTH SCENARIO (H5A), WAS
DEVELOPED BECAUSE THE H5 FORECAST PUT
TOO MUCH PRESSURE ON COAL PRODUCTION IN
THE U.S., AND IN REVIEW, CANADIAN URANIUM
SUPPLY EXPERTS HAD REVIEWED THE IMPLIED
H5A DEMANDS AND FOUND THEM NOT INFEASIBLE.

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DURING THE DISCUSSION THE UK DELEGATION EMPHASIZED
POINT NUMBER 5 ABOVE, AND SUGGESTED THAT THE WEC
ASSUMED NUCLEAR CAPACITY FOR 2000 COULD BE ACHIEVED
EVEN THOUGH THEIR 1985 PROJECTIONS NOW LOOK TOO
OPTIMISTIC. THEY INDICATED SCENARIO H5A HAD BEEN DIS-
CUSSED AT THE EARLIER CONFERENCE IN TURKEY, AND,
THOUGH NOT PUBLISHED, HAD BROAD REVIEW AND SUPPORT.
THEY URGED ACCEPTANCE OF H5A BY THE SUB-GROUP SINCE
SUPPLY CONSTRAINTS, IF ANY, SHOULD BE DISCOVERED
BY OTHER WORKING SUB-GROUPS (EG. I-B). THEY ALSO
SAID SCENARIO H5 IMPLIED TOO MUCH COAL WAS BEING USED
BY 2020.

THE FRENCH INDICATED THAT THE RANGE BETWEEN
SCENARIOS H5 AND L4 WAS NOT SUFFICIENT IN 2020.
THE INDIAN DELEGATE INDICATED THAT A GROWTH PATH
SHOULD BE ATTACHED TO THE AGGREGATE OF THE OFFICIAL
COUNTRIES' SUBMISSIONS IN 2000.

THE U.S. DELEGATION EXPRESSED ITS AGREEMENT
WITH THE WEC METHODOLOGY IN GENERAL BUT COULD NOT
ACCEPT SCENARIO H5A. IT WAS STATED THAT MORE TIME
TO STUDY THE VARIOUS PROPOSALS WAS NEEDED SINCE WE
HAVE HAD LITTLE TIME TO ASSIMILATE THE RESULTS OF THE
DISCUSSIONS WITH EDEN. WE ARGUED THAT H5A STARTED
TOO HIGH AND GREW TOO RAPIDLY, AND IN FACT, EX-
CEEDED URANIUM SUPPLY LIMIT DESCRIBED IN SUPPORTING
DOCUMENTS TO WEC FOR THE YEAR 2000. SCENARIO H5,
ON THE OTHER HAND, HAD PRODUCED A NUCLEAR CAPABILITY
WITHIN THIS LIMIT. IN ANY CASE, WE WOULD AWAIT
FINAL INFCE FIGURES AFTER THE IEA ADJUSTMENT TO BOTH
HIGH AND LOW PROJECTION FOR 2000 BEFORE DECIDING ON 2025.
WE EMPHASIZED POINTS NUMBER 2 AND 3 ABOVE, AND QUESTION-
ED WHETHER H5A HAD BEEN WIDELY DISCUSSED.

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THE CO-CHAIRMAN, MR. WAGNER, CONCLUDED THAT IN THE END WE SHOULD FOLLOW THE WEC METHODOLOGY, AND ADJUST THE LONG-TERM PROJECTIONS TO THE FINAL 2000 INFCE HIGH AND LOW. THE GROWTH RATES ARE ESSENTIALLY THE SAME, AS SHOWN IN A GRAPHIC REPRESENTATION INTRODUCED BY THE U.S. DELEGATION. AT THE PROVOCATION OF THE U.S. DELEGATION, HE AGREED THAT THIS MEETING WAS TO DISCUSS ONLY THE METHODOLOGY FOR LONG-TERM PROJECTIONS. HE ASKED THE UK TO PREPARE A CHART SHOWING ALL CANDIDATE SERIES, INCLUDING H5, H5A,

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AND L4 FROM WEC AS WELL AS SERIES FROM OECD, NEA, IASA, WAES, AND CEA. THE FINAL CHOICE OF LONG-TERM NUMBERS SHOULD LOGICALLY ACCOMMODATE THE PROJECTION RANGE THROUGH 1990 - 2000, FINALLY DETERMINED AFTER ADJUSTMENTS COMING FROM THE IEA NUCLEAR SUB-GROUP REVIEW. WE SHOULD ADOPT THE WEC METHODOLOGY, BUT H5A REQUIRED FURTHER DISCUSSION SINCE

IT WAS ONLY RECENTLY DESCRIBED. THUS, MR. WAGNER
ENDORSED SHIFTING THE EXTRAPOLATED CURVES TO AGREE
WITH THE PROJECTIONS FOR THE EARLIER PERIOD.

AFTER RECEIVING THE UK CHART, EACH DELEGATION
WAS INVITED TO SUBMIT ITS COMMENTS ON THE CHOICE OF
LONG-TERM CURVES BY MID -SEPTEMBER FOR CIRCULATION
AND RESOLVSION AT THE OCTOBER MEETING IN VIENNA.

THE QUESTION OF GEOGRAPHICAL PRESENTATION OF
THE LONG-TERM FORECASTS WAS DISCUSSED. IT WAS AGREED
TO REQUEST DIRECTION FROM THE WG-1 AND THE TCC, WITH
THE INTENTION TO GET OTHER WORKING GROUPS TO SPECIFY
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THEIR DATA REQUIREMENTS FOR SCENARIOS OR SENSITIVITY
TESTING WHICH MAY REQUIRE DISAGGREGATED GEOGRAPHIC
PROJECTIONS.

COUNTRIES WERE ASKED TO SEND TO WAGNER THEIR
COMMENTS BY MID-AUGUST ON THE COMMUNIST BLOC COUNTRIES'
PROJECTIONS TO 1990 OR BEYOND WHICH HE WOULD TAKE TO
MOSCOW IN SEPTEMBER IN AN EFFORT TO RECEIVE COMMENTS
FROM THE SOVIET UNION. HE WOULD PROPOSE TO USE THESE
PROJECTIONS UNLESS WE RECEIVE ALTERNATIVE FIGURES.

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